Maria A Blasco

List of Publications by Year
in descending order

286 papers	53,602 citations	1612 105 h-index	1345 223 g-index
294 all docs	294 docs citations	294 times ranked	48638 citing authors

#	Article	IF	Citations
1	The Hallmarks of Aging. Cell, 2013, 153, 1194-1217.	13.5	10,992
2	Telomere Shortening and Tumor Formation by Mouse Cells Lacking Telomerase RNA. Cell, 1997, 91, 25-34.	13.5	1,988
3	Cellular Senescence in Cancer and Aging. Cell, 2007, 130, 223-233.	13.5	1,484
4	Telomeres and human disease: ageing, cancer and beyond. Nature Reviews Genetics, 2005, 6, 611-622.	7.7	1,435
5	Longevity, Stress Response, and Cancer in Aging Telomerase-Deficient Mice. Cell, 1999, 96, 701-712.	13.5	1,294
6	Essential role of mouse telomerase in highly proliferative organs. Nature, 1998, 392, 569-574.	13.7	1,195
7	Personal Omics Profiling Reveals Dynamic Molecular and Medical Phenotypes. Cell, 2012, 148, 1293-1307.	13.5	1,134
8	A p53-mediated DNA damage response limits reprogramming to ensure iPS cell genomic integrity. Nature, 2009, 460, 1149-1153.	13.7	959
9	The common biology of cancer and ageing. Nature, 2007, 448, 767-774.	13.7	903
10	The Ink4/Arf locus is a barrier for iPS cell reprogramming. Nature, 2009, 460, 1136-1139.	13.7	897
11	Developmentally regulated transcription of mammalian telomeres by DNA-dependent RNA polymerase II. Nature Cell Biology, 2008, 10, 228-236.	4.6	691
12	Telomere length, stem cells and aging. Nature Chemical Biology, 2007, 3, 640-649.	3.9	637
13	Isolation and in vitro expansion of human colonic stem cells. Nature Medicine, 2011, 17, 1225-1227.	15.2	616
14	The epigenetic regulation of mammalian telomeres. Nature Reviews Genetics, 2007, 8, 299-309.	7.7	607
15	Secondary Structure of Vertebrate Telomerase RNA. Cell, 2000, 100, 503-514.	13.5	547
16	DNA methyltransferases control telomere length and telomere recombination in mammalian cells. Nature Cell Biology, 2006, 8, 416-424.	4.6	538
17	Epigenetic regulation of telomere length in mammalian cells by the Suv39h1 and Suv39h2 histone methyltransferases. Nature Genetics, 2004, 36, 94-99.	9.4	499
18	'Super p53' mice exhibit enhanced DNA damage response, are tumor resistant and age normally. EMBO Journal, 2002, 21, 6225-6235.	3.5	495

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19	Hepatocyte telomere shortening and senescence are general markers of human liver cirrhosis. FASEB Journal, 2002, 16, 935-942.	0.2	469
20	Tissue damage and senescence provide critical signals for cellular reprogramming in vivo. Science, 2016, 354, .	6.0	466
21	Telomeres Acquire Embryonic Stem Cell Characteristics in Induced Pluripotent Stem Cells. Cell Stem Cell, 2009, 4, 141-154.	5.2	450
22	Telomeric and extra-telomeric roles for telomerase and the telomere-binding proteins. Nature Reviews Cancer, 2011, 11, 161-176.	12.8	443
23	Delayed ageing through damage protection by the Arf/p53 pathway. Nature, 2007, 448, 375-379.	13.7	439
24	Disease states associated with telomerase deficiency appear earlier in mice with short telomeres. EMBO Journal, 1999, 18, 2950-2960.	3.5	426
25	A Subpopulation of Adult Skeletal Muscle Stem Cells Retains All Template DNA Strands after Cell Division. Cell, 2012, 148, 112-125.	13.5	421
26	Telomerase gene therapy in adult and old mice delays aging and increases longevity without increasing cancer. EMBO Molecular Medicine, 2012, 4, 691-704.	3.3	403
27	Effects of Telomerase and Telomere Length on Epidermal Stem Cell Behavior. Science, 2005, 309, 1253-1256.	6.0	400
28	Telomerase Reverse Transcriptase Delays Aging in Cancer-Resistant Mice. Cell, 2008, 135, 609-622.	13.5	396
29	Functional characterization and developmental regulation of mouse telomerase RNA. Science, 1995, 269, 1267-1270.	6.0	350
30	A mammalian microRNA cluster controls DNA methylation and telomere recombination via Rbl2-dependent regulation of DNA methyltransferases. Nature Structural and Molecular Biology, 2008, 15, 268-279.	3.6	348
31	Telomere lengthening early in development. Nature Cell Biology, 2007, 9, 1436-1441.	4.6	330
32	Increased epidermal tumors and increased skin wound healing in transgenic mice overexpressing the catalytic subunit of telomerase, mTERT, in basal keratinocytes. EMBO Journal, 2001, 20, 2619-2630.	3.5	325
33	Telomerase-deficient mice with short telomeres are resistant to skin tumorigenesis. Nature Genetics, 2000, 26, 114-117.	9.4	319
34	Increased telomere fragility and fusions resulting from TRF1 deficiency lead to degenerative pathologies and increased cancer in mice. Genes and Development, 2009, 23, 2060-2075.	2.7	317
35	Role of the RB1 family in stabilizing histone methylation at constitutive heterochromatin. Nature Cell Biology, 2005, 7, 420-428.	4.6	314
36	Telomere length regulates the epigenetic status of mammalian telomeres and subtelomeres. Nature Genetics, 2007, 39, 243-250.	9.4	313

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37	Telomere Length Dynamics and Chromosomal Instability in Cells Derived from Telomerase Null Mice. Journal of Cell Biology, 1999, 144, 589-601.	2.3	305
38	Mammalian Ku86 protein prevents telomeric fusions independently of the length of TTAGGG repeats and the Gâ€strand overhang. EMBO Reports, 2000, 1, 244-252.	2.0	299
39	The longest telomeres: a general signature of adult stem cell compartments. Genes and Development, 2008, 22, 654-667.	2.7	299
40	Differential regulation of telomerase activity and telomerase RNA during multi-stage tumorigenesis. Nature Genetics, 1996, 12, 200-204.	9.4	281
41	High-throughput telomere length quantification by FISH and its application to human population studies. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5300-5305.	3.3	276
42	The telomerase activator TAâ€65 elongates short telomeres and increases health span of adult/old mice without increasing cancer incidence. Aging Cell, 2011, 10, 604-621.	3.0	259
43	Restoration of telomerase activity rescues chromosomal instability and premature aging in Terc â^'/â^' mice with short telomeres. EMBO Reports, 2001, 2, 800-807.	2.0	253
44	Ablation of telomerase and telomere loss leads to cardiac dilatation and heart failure associated with p53 upregulation. EMBO Journal, 2003, 22, 131-139.	3.5	253
45	A general structure for DNA-dependent DNA polymerases. Gene, 1991, 100, 27-38.	1.0	242
46	Suv4-20h deficiency results in telomere elongation and derepression of telomere recombination. Journal of Cell Biology, 2007, 178, 925-936.	2.3	237
47	POT1 mutations cause telomere dysfunction in chronic lymphocytic leukemia. Nature Genetics, 2013, 45, 526-530.	9.4	236
48	Telomere shortening rate predicts species life span. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 15122-15127.	3.3	236
49	Mammalian Rap1 controls telomere function and gene expression through binding to telomeric and extratelomeric sites. Nature Cell Biology, 2010, 12, 768-780.	4.6	220
50	SIRT1 contributes to telomere maintenance and augments global homologous recombination. Journal of Cell Biology, 2010, 191, 1299-1313.	2.3	220
51	Global chromatin compaction limits the strength of the DNA damage response. Journal of Cell Biology, 2007, 178, 1101-1108.	2.3	217
52	Short Telomeres Result in Organismal Hypersensitivity to Ionizing Radiation in Mammals. Journal of Experimental Medicine, 2000, 192, 1625-1636.	4.2	212
53	Telomere damage induced by the G-quadruplex ligand RHPS4 has an antitumor effect. Journal of Clinical Investigation, 2007, 117, 3236-3247.	3.9	212
54	XPF nuclease-dependent telomere loss and increased DNA damage in mice overexpressing TRF2 result in premature aging and cancer. Nature Genetics, 2005, 37, 1063-1071.	9.4	207

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55	Telomerase regulation and stem cell behaviour. Current Opinion in Cell Biology, 2006, 18, 254-260.	2.6	205
56	Telomere Maintenance Requires the RAD51D Recombination/Repair Protein. Cell, 2004, 117, 337-347.	13.5	204
57	Expression of mouse telomerase catalytic subunit in embryos and adult tissues. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10471-10476.	3.3	198
58	Telomere-driven diseases and telomere-targeting therapies. Journal of Cell Biology, 2017, 216, 875-887.	2.3	194
59	MARK-AGE biomarkers of ageing. Mechanisms of Ageing and Development, 2015, 151, 2-12.	2.2	189
60	The Absence of the DNA-Dependent Protein Kinase Catalytic Subunit in Mice Results in Anaphase Bridges and in Increased Telomeric Fusions with Normal Telomere Length and G-Strand Overhang. Molecular and Cellular Biology, 2001, 21, 3642-3651.	1.1	188
61	Mammalian Ku86 mediates chromosomal fusions and apoptosis caused by critically short telomeres. EMBO Journal, 2002, 21, 2207-2219.	3.5	188
62	A G-Quadruplex Ligand with 10000-Fold Selectivity over Duplex DNA. Journal of the American Chemical Society, 2007, 129, 1502-1503.	6.6	188
63	A â€˜higher orderâ€™ of telomere regulation: telomere heterochromatin and telomeric RNAs. EMBO Journal, 2009, 28, 2323-2336.	3.5	188
64	Telomerase at the intersection of cancer and aging. Trends in Genetics, 2013, 29, 513-520.	2.9	186
65	Oxidative Stress Contributes to Arsenic-induced Telomere Attrition, Chromosome Instability, and Apoptosis. Journal of Biological Chemistry, 2003, 278, 31998-32004.	1.6	182
66	Mice with Pulmonary Fibrosis Driven by Telomere Dysfunction. Cell Reports, 2015, 12, 286-299.	2.9	175
67	Cancer and ageing: convergent and divergent mechanisms. Nature Reviews Molecular Cell Biology, 2007, 8, 715-722.	16.1	174
68	Functional Interaction between Poly(ADP-Ribose) Polymerase 2 (PARP-2) and TRF2: PARP Activity Negatively Regulates TRF2. Molecular and Cellular Biology, 2004, 24, 1595-1607.	1.1	166
69	Identification of novel pathways involved in the pathogenesis of human adamantinomatous craniopharyngioma. Acta Neuropathologica, 2012, 124, 259-271.	3.9	164
70	Telomere Shortening in Neural Stem Cells Disrupts Neuronal Differentiation and Neuritogenesis. Journal of Neuroscience, 2009, 29, 14394-14407.	1.7	163
71	The Rate of Increase of Short Telomeres Predicts Longevity in Mammals. Cell Reports, 2012, 2, 732-737.	2.9	163
72	Telomeres in cancer and ageing. Philosophical Transactions of the Royal Society B: Biological Sciences, 2011, 366, 76-84.	1.8	161

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73	Telomerase beyond telomeres. Nature Reviews Cancer, 2002, 2, 627-633.	12.8	160
74	Nuclear envelope defects cause stem cell dysfunction in premature-aging mice. Journal of Cell Biology, 2008, 181, 27-35.	2.3	160
75	Cohesin-SA1 deficiency drives aneuploidy and tumourigenesis in mice due to impaired replication of telomeres. EMBO Journal, 2012, 31, 2076-2089.	3.5	160
76	A GRFa2/Prop1/Stem (GPS) Cell Niche in the Pituitary. PLoS ONE, 2009, 4, e4815.	1.1	158
77	Irregular telomeres impair meiotic synapsis and recombination in mice. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6496-6501.	3.3	146
78	An Essential Role for Functional Telomeres in Mouse Germ Cells during Fertilization and Early Development. Developmental Biology, 2002, 249, 74-84.	0.9	145
79	Telomere shortening impairs organ regeneration by inhibiting cell cycle re-entry of a subpopulation of cells. EMBO Journal, 2003, 22, 4003-4013.	3.5	144
80	Transformation of normal human cells in the absence of telomerase activation. Cancer Cell, 2002, 2, 401-413.	7.7	143
81	Assessing Cell and Organ Senescence Biomarkers. Circulation Research, 2012, 111, 97-109.	2.0	141
82	BRCA2 acts as a RAD51 loader to facilitate telomere replication and capping. Nature Structural and Molecular Biology, 2010, 17, 1461-1469.	3.6	140
83	Long-term repopulating ability of telomerase-deficient murine hematopoietic stem cells. Blood, 2002, 99, 2767-2775.	0.6	139
84	Impaired germinal center reaction in mice with short telomeres. EMBO Journal, 2000, 19, 472-481.	3.5	137
85	Telomere shortening and chromosomal instability abrogates proliferation of adult but not embryonic neural stem cells. Development (Cambridge), 2004, 131, 4059-4070.	1.2	133
86	Mice with bad ends: mouse models for the study of telomeres and telomerase in cancer and aging. EMBO Journal, 2005, 24, 1095-1103.	3.5	130
87	Role of shelterin in cancer and aging. Aging Cell, 2010, 9, 653-666.	3.0	127
88	Telomere shortening in mTR-/- embryos is associated with failure to close the neural tube. EMBO Journal, 1999, 18, 1172-1181.	3.5	126
89	Telomerase expression confers cardioprotection in the adult mouse heart after acute myocardial infarction. Nature Communications, 2014, 5, 5863.	5.8	125
90	A mutation in the POT1 gene is responsible for cardiac angiosarcoma in TP53-negative Liâ€“Fraumeni-like families. Nature Communications, 2015, 6, 8383.	5.8	124

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91	Telomerase deficiency impairs differentiation of mesenchymal stem cells. Experimental Cell Research, 2004, 294, 1-8.	1.2	123
92	Telomere length predicts embryo fragmentation after in vitro fertilization in womenâ€"Toward a telomere theory of reproductive aging in women. American Journal of Obstetrics and Gynecology, 2005, 192, 1256-1260.	0.7	122
93	Evolving views of telomerase and cancer. Trends in Cell Biology, 2003, 13, 289-294.	3.6	120
94	Porphyrin Derivatives for Telomere Binding and Telomerase Inhibition. ChemBioChem, 2005, 6, 123-132.	1.3	120
95	TERRA transcripts are bound by a complex array of RNA-binding proteins. Nature Communications, 2010, 1, 33.	5.8	119
96	The role of telomeres and telomerase in stem cell aging. FEBS Letters, 2010, 584, 3826-3830.	1.3	118
97	TPP1 Is Required for TERT Recruitment, Telomere Elongation during Nuclear Reprogramming, and Normal Skin Development in Mice. Developmental Cell, 2010, 18, 775-789.	3.1	116
98	p53 isoforms regulate aging- and tumor-associated replicative senescence in T lymphocytes. Journal of Clinical Investigation, 2013, 123, 5247-5257.	3.9	116
99	Functional interaction between DNA-PKcs and telomerase in telomere length maintenance. EMBO Journal, 2002, 21, 6275-6287.	3.5	115
100	Telomerase abrogation dramatically accelerates TRF2-induced epithelial carcinogenesis. Genes and Development, 2007, 21, 206-220.	2.7	115
101	Centromere mitotic recombination in mammalian cells. Journal of Cell Biology, 2008, 181, 885-892.	2.3	115
102	Replicating through telomeres: a means to an end. Trends in Biochemical Sciences, 2015, 40, 504-515.	3.7	113
103	Shorter telomeres, accelerated ageing and increased lymphoma in DNAâ€PKcsâ€deficient mice. EMBO Reports, 2004, 5, 503-509.	2.0	111
104	Epigenetic regulation of telomeres in human cancer. Oncogene, 2008, 27, 6817-6833.	2.6	111
105	The load of short telomeres is increased and associated with lifetime number of depressive episodes in bipolar II disorder. Journal of Affective Disorders, 2011, 135, 43-50.	2.0	111
106	A role for the Rb family of proteins in controlling telomere length. Nature Genetics, 2002, 32, 415-419.	9.4	108
107	Role of Rb Family in the Epigenetic Definition of Chromatin. Cell Cycle, 2005, 4, 752-755.	1.3	104
108	Increased p53 activity does not accelerate telomereâ€driven ageing. EMBO Reports, 2006, 7, 546-552.	2.0	103

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109	RAP1 Protects from Obesity through Its Extratelomeric Role Regulating Gene Expression. Cell Reports, 2013, 3, 2059-2074.	2.9	102
110	Mice with hyper-long telomeres show less metabolic aging and longer lifespans. Nature Communications, 2019, 10, 4723.	5.8	102
111	Haploinsufficiency for BRCA1 leads to cell-type-specific genomic instability and premature senescence. Nature Communications, 2015, 6, 7505.	5.8	101
112	TERRA recruitment of polycomb to telomeres is essential for histone trymethylation marks at telomeric heterochromatin. Nature Communications, 2018, 9, 1548.	5.8	101
113	Many ways to telomere dysfunction: in vivo studies using mouse models. Oncogene, 2002, 21, 584-591.	2.6	95
114	The RNA Subunit of Telomerase Is Encoded by Marek's Disease Virus. Journal of Virology, 2003, 77, 5985-5996.	1.5	95
115	Antagonistic effects of telomerase on cancer and aging in K5-mTert transgenic mice. Oncogene, 2005, 24, 2256-2270.	2.6	95
116	Genome-wide CTCF distribution in vertebrates defines equivalent sites that aid the identification of disease-associated genes. Nature Structural and Molecular Biology, 2011, 18, 708-714.	3.6	95
117	Requirement of functional telomeres for metaphase chromosome alignments and integrity of meiotic spindles. EMBO Reports, 2002, 3, 230-234.	2.0	94
118	Mice Deficient in Telomerase Activity Develop Hypertension Because of an Excess of Endothelin Production. Circulation, 2006, 114, 309-317.	1.6	93
119	Mammalian telomeres and telomerase: why they matter for cancer and aging. European Journal of Cell Biology, 2003, 82, 441-446.	1.6	91
120	Constitutive Expression of Tert in Thymocytes Leads to Increased Incidence and Dissemination of T-Cell Lymphoma in Lck-Tert Mice. Molecular and Cellular Biology, 2004, 24, 4275-4293.	1.1	91
121	Telomeric RNAs are essential to maintain telomeres. Nature Communications, 2016, 7, 12534.	5.8	91
122	Long-term molecular and cellular stability of human neural stem cell lines. Experimental Cell Research, 2004, 294, 559-570.	1.2	88
123	Therapeutic effects of telomerase in mice with pulmonary fibrosis induced by damage to the lungs and short telomeres. ELife, 2018, 7, .	2.8	88
124	Massive Telomere Loss Is an Early Event of DNA Damage-induced Apoptosis. Journal of Biological Chemistry, 2003, 278, 836-842.	1.6	87
125	Impact of telomerase ablation on organismal viability, aging, and tumorigenesis in mice lacking the DNA repair proteins PARP-1, Ku86, or DNA-PKcs. Journal of Cell Biology, 2004, 167, 627-638.	2.3	87
126	Epigenetic silencing of Oct4 by a complex containing SUV39H1 and Oct4 pseudogene lncRNA. Nature Communications, 2015, 6, 7631.	5.8	87

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127	Cooperation between p53 Mutation and High Telomerase Transgenic Expression in Spontaneous Cancer Development. Molecular and Cellular Biology, 2002, 22, 7291-7301.	1.1	85
128	Genetic inactivation of Cdk7 leads to cell cycle arrest and induces premature aging due to adult stem cell exhaustion. EMBO Journal, 2012, 31, 2498-2510.	3.5	85
129	Identification of TERRA locus unveils a telomere protection role through association to nearly all chromosomes. Nature Communications, 2014, 5, 4723.	5.8	85
130	53BP1 Enforces Distinct Pre- and Post-resection Blocks on Homologous Recombination. Molecular Cell, 2020, 77, 26-38.e7.	4.5	85
131	Telomerase Reverse Transcriptase Synergizes with Calorie Restriction to Increase Health Span and Extend Mouse Longevity. PLoS ONE, 2013, 8, e53760.	1.1	85
132	Spreading of mammalian DNA-damage response factors studied by ChIP-chip at damaged telomeres. EMBO Journal, 2007, 26, 2707-2718.	3.5	84
133	Limiting replication stress during somatic cell reprogramming reduces genomic instability in induced pluripotent stem cells. Nature Communications, 2015, 6, 8036.	5.8	84
134	Normal telomere length and chromosomal end capping in poly(ADP-ribose) polymeraseâ€“deficient mice and primary cells despite increased chromosomal instability. Journal of Cell Biology, 2001, 154, 49-60.	2.3	83
135	Breaks at telomeres and TRF2-independent end fusions in Fanconi anemia. Human Molecular Genetics, 2002, 11, 439-444.	1.4	83
136	Beyond average: potential for measurement of short telomeres. Aging, 2012, 4, 379-392.	1.4	79
137	Chromatin regulation and non-coding RNAs at mammalian telomeres. Seminars in Cell and Developmental Biology, 2010, 21, 186-193.	2.3	78
138	Role of Mammalian Rad54 in Telomere Length Maintenance. Molecular and Cellular Biology, 2003, 23, 5572-5580.	1.1	77
139	Short telomeres protect from dietâ€induced atherosclerosis in apolipoprotein Eâ€null mice. FASEB Journal, 2004, 18, 1-16.	0.2	77
140	TRF1 Controls Telomere Length and Mitotic Fidelity in Epithelial Homeostasis. Molecular and Cellular Biology, 2009, 29, 1608-1625.	1.1	76
141	Localization-Dependent and -Independent Roles of SLX4 in Regulating Telomeres. Cell Reports, 2013, 4, 853-860.	2.9	76
142	Shorter telomere lengths in patients with severe COVID-19 disease. Aging, 2021, 13, 1-15.	1.4	76
143	Different telomere-length dynamics at the inner cell mass versus established embryonic stem (ES) cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15207-15212.	3.3	72
144	Telomeres and telomerase in Alzheimer's disease: Epiphenomena or a new focus for therapeutic strategy?. , 2006, 2, 164-168.		68

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145	Telomere Shortening and Oxidative Stress in Aged Macrophages Results in Impaired STAT5a Phosphorylation. Journal of Immunology, 2009, 183, 2356-2364.	0.4	68
146	A metabolic signature predicts biological age in mice. Aging Cell, 2013, 12, 93-101.	3.0	68
147	Telomerase gene therapy rescues telomere length, bone marrow aplasia, and survival in mice with aplastic anemia. Blood, 2016, 127, 1770-1779.	0.6	68
148	A p53-Dependent Response Limits Epidermal Stem Cell Functionality and Organismal Size in Mice with Short Telomeres. PLoS ONE, 2009, 4, e4934.	1.1	67
149	The telomerase RNA component Terc is required for the tumourâ€promoting effects of Tert overexpression. EMBO Reports, 2005, 6, 268-274.	2.0	66
150	Therapeutic effect of androgen therapy in a mouse model of aplastic anemia produced by short telomeres. Haematologica, 2015, 100, 1267-1274.	1.7	66
151	SIRT1 Is Necessary for Proficient Telomere Elongation and Genomic Stability of Induced Pluripotent Stem Cells. Stem Cell Reports, 2014, 2, 690-706.	2.3	65
152	Identification of Functional Domains and Dominant Negative Mutations in Vertebrate Telomerase RNA Using an in VivoReconstitution System. Journal of Biological Chemistry, 2001, 276, 5856-5865.	1.6	64
153	Shortened telomeres join to DNA breaks interfering with their correct repair. Experimental Cell Research, 2003, 287, 282-288.	1.2	64
154	Expression of mTert in primary murine cells links the growth-promoting effects of telomerase to transforming growth factor-Î² signaling. Oncogene, 2006, 25, 4310-4319.	2.6	64
155	Stem and progenitor cell division kinetics during postnatal mouse mammary gland development. Nature Communications, 2015, 6, 8487.	5.8	64
156	Telomeres and telomerase as therapeutic targets to prevent and treat age-related diseases. F1000Research, 2016, 5, 89.	0.8	64
157	Short Telomere Load, Telomere Length, and Subclinical Atherosclerosis. Journal of the American College of Cardiology, 2016, 67, 2467-2476.	1.2	64
158	Decreased B16F10 melanoma growth and impaired vascularization in telomerase-deficient mice with critically short telomeres. Cancer Research, 2002, 62, 552-9.	0.4	63
159	Role of the TRF2 Telomeric Protein in Cancer and Aging. Cell Cycle, 2006, 5, 718-721.	1.3	60
160	TRF1 is a stem cell marker and is essential for the generation of induced pluripotent stem cells. Nature Communications, 2013, 4, 1946.	5.8	60
161	Conditional TRF1 knockout in the hematopoietic compartment leads to bone marrow failure and recapitulates clinical features of dyskeratosis congenita. Blood, 2012, 120, 2990-3000.	0.6	59
162	Telomerase reverses epidermal hair follicle stem cell defects and loss of long-term survival associated with critically short telomeres. Journal of Cell Biology, 2007, 179, 277-290.	2.3	58

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163	ATR suppresses telomere fragility and recombination but is dispensable for elongation of short telomeres by telomerase. Journal of Cell Biology, 2010, 188, 639-652.	2.3	58
164	Telomere rejuvenation during nuclear reprogramming. Current Opinion in Genetics and Development, 2010, 20, 190-196.	1.5	56
165	Splicing machinery dysregulation drives glioblastoma development/aggressiveness: oncogenic role of SRSF3. Brain, 2020, 143, 3273-3293.	3.7	54
166	Telomeres and cancer: a tale with many endings. Current Opinion in Genetics and Development, 2003, 13, 70-76.	1.5	53
167	Role of Human Ku86 in Telomere Length Maintenance and Telomere Capping. Cancer Research, 2004, 64, 7271-7278.	0.4	52
168	Inhibition of TRF1 Telomere Protein Impairs Tumor Initiation and Progression in Glioblastoma Mouse Models and Patient-Derived Xenografts. Cancer Cell, 2017, 32, 590-607.e4.	7.7	52
169	Porphyrinâ€“aminoquinoline conjugates as telomerase inhibitors. Organic and Biomolecular Chemistry, 2003, 1, 921-927.	1.5	51
170	Novel roles for telomerase in aging. Mechanisms of Ageing and Development, 2006, 127, 579-583.	2.2	51
171	Sox4 Links Tumor Suppression to Accelerated Aging in Mice by Modulating Stem Cell Activation. Cell Reports, 2014, 8, 487-500.	2.9	51
172	Primer Terminus Stabilization at the Ï†29 DNA Polymerase Active Site. Journal of Biological Chemistry, 1995, 270, 2735-2740.	1.6	50
173	Genomic instability in iPS: time for a break. EMBO Journal, 2011, 30, 991-993.	3.5	50
174	Generation of mice with longer and better preserved telomeres in the absence of genetic manipulations. Nature Communications, 2016, 7, 11739.	5.8	50
175	Heart-Breaking Telomeres. Circulation Research, 2018, 123, 787-802.	2.0	50
176	<scp>NSMCE</scp> 2 suppresses cancer and aging in mice independently of its <scp>SUMO</scp> ligase activity. EMBO Journal, 2015, 34, 2604-2619.	3.5	49
177	Role of TRF2 in the assembly of telomeric chromatin. Cell Cycle, 2008, 7, 3461-3468.	1.3	48
178	Deficient mismatch repair improves organismal fitness and survival of mice with dysfunctional telomeres. Genes and Development, 2007, 21, 2234-2247.	2.7	47
179	Modulation of telomere protection by the PI3K/AKT pathway. Nature Communications, 2017, 8, 1278.	5.8	47
180	The mouse telomerase RNA 5'-end lies just upstream of the telomerase template sequence. Nucleic Acids Research, 1998, 26, 532-536.	6.5	46

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181	Telomere shortening relaxes X chromosome inactivation and forces global transcriptome alterations. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 19393-19398.	3.3	46
182	Immunosenescence phenotypes in the telomerase knockout mouse. Seminars in Immunopathology, 2002, 24, 75-85.	4.0	45
183	Therapeutic inhibition of <scp>TRF</scp> 1 impairs the growth of p53 â€deficient Kâ€Ras ^{G12V} â€ induced lung cancer by induction of telomeric <scp>DNA</scp> damage. EMBO Molecular Medicine, 2015, 7, 930-949.	3.3	45
184	Phi 29 DNA polymerase active site. Mutants in conserved residues Tyr254 and Tyr390 are affected in dNTP binding. Journal of Biological Chemistry, 1992, 267, 19427-34.	1.6	45
185	The mTOR pathway is necessary for survival of mice with short telomeres. Nature Communications, 2020, 11, 1168.	5.8	44
186	p53 Prevents Entry into Mitosis with Uncapped Telomeres. Current Biology, 2010, 20, 521-526.	1.8	43
187	Critically short telomeres are associated with sperm DNA fragmentation. Fertility and Sterility, 2005, 84, 843-845.	0.5	42
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